AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (Currently Amended) An image forming apparatus comprising:

exposing means an exposing device including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

eooling means a cooler for cooling the organic electroluminescence element.

Claim 2 (Currently Amended) The image forming apparatus according to Claim 1, wherein the cooling means cooler comprises at least one of a Peltiert Peltier element, a fan and a fin.

Claim 3 (Currently Amended) An image forming apparatus comprising:

exposing means an exposing device including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

electroluminescence element;

wherein the fan is attached at a position capable of blowing a wind in a direction substantially orthogonal to a longitudinal direction of the exposing-means device.

Claim 4 (Currently Amended) An image forming apparatus comprising:

exposing means an exposing device including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

cooling means a cooler comprising a Peltiert Peltier element for cooling the organic electroluminescence element;

wherein the <u>eooling means</u> <u>cooler</u> cools any of faces excluding at least a luminescent face of the organic electroluminescence element.

Claim 5 (Currently Amended) An image forming apparatus comprising:

exposing means an exposing device including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

a cooling medium pipe for transporting a cooling medium for cooling the organic electroluminescence element along a vicinity of the organic electroluminescence element.

Claim 6 (Currently Amended) The image forming apparatus according to Claim 1, further comprising:

a temperature sensor for detecting a temperature of the exposing means exposing device; and

controlling means a controller for operating the cooling means cooler when the temperature of the exposing means exposing device detected by the temperature sensor becomes out of exceeds a predetermined temperature.

Claim 7 (Currently Amended) An image forming apparatus comprising:

exposing means an exposing device including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

a temperature sensor for detecting a temperature of the exposure head; and

<u>eontrolling means a controller</u> for operating the <u>eooling means cooler</u> when a

temperature of the exposure head detected by the temperature sensor becomes out of

exceeds a predetermined temperature;

cooling means a cooler for cooling the organic electroluminescence element;

wherein the <u>controlling means controller</u> controls the <u>cooling means cooler</u> to cool the <u>exposing means exposing device</u> to an environmental temperature in a steady state equal to or lower than a crystallizing temperature of an organic substance provided by the organic electroluminescence element.

Claim 8 (Currently Amended) An image forming apparatus comprising:

exposing means an exposing device including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

eooling means a cooler including at least one of a Peltiert Peltier element, a fan and a fin for cooling the organic electroluminescence element;

a temperature sensor for detecting a temperature of the <u>exposing means exposing</u> <u>device</u>; and

eontrolling means a controller for operating the eooling means cooler when the temperature of the exposing means exposing device detected by the temperature sensor becomes out of exceeds a predetermined temperature.

Claim 9 (Currently Amended) The image forming apparatus according to Claim 8, wherein the controlling means controller controls the cooling means cooler to cool the exposing means exposing device to an environmental temperature in a steady state equal to or lower than a crystallizing temperature of an organic substance provided by the organic electroluminescence element.

Claim 10 (Currently Amended) An image forming apparatus comprising:

exposing means an exposing device including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

a temperature sensor for detecting a temperature of the exposure head; and

<u>controlling_means_a_controller</u> for operating the <u>cooling_means_cooler</u> when the

temperature of the <u>exposing_means_exposing_device</u> detected by the temperature sensor

<u>becomes_out_of_exceeds_a_predetermined_temperature;</u>

wherein the <u>eontrolling means controller</u> sets a <u>width range</u> of varying the temperature of the <u>exposing means exposing device</u> to an environmental temperature ±20°C in a steady state.

Claim 11 (Currently Amended) An image forming apparatus comprising:

than a predetermined darkness.

exposing means an exposing device including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

eooling means a cooler for cooling the organic electroluminescence element;

a light amount sensor for detecting a light amount of light irradiated from the organic electroluminescence element; and

controlling means a controller for operating the cooling means cooler when the light amount of the light detected by the light amount sensor becomes equal to or smaller than a predetermined amount.

Claim 12 (Currently Amended) An image forming apparatus comprising:

exposing means an exposing device including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

a darkness sensor for detecting a darkness of the toner image; and

controlling means a controller for operating the cooling means cooler when the

darkness of the toner image detected by the darkness sensor becomes equal to or smaller

Claim 13 (Currently Amended) An image forming apparatus comprising:

exposing means an exposing device including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

cooling means a cooler for cooling the organic electroluminescence element;

a temperature sensor for detecting a temperature of the <u>exposing means</u> <u>exposing</u> device;

a light amount sensor for detecting a light amount of light irradiated from the organic electroluminescence element;

a darkness sensor for detecting a darkness of the toner image; and

controlling means a controller for operating the cooling means cooler based on an output of one of the temperature sensor, or the light amount sensor or and the darkness

sensor;

wherein the <u>controlling means controller</u> controls a current supplied to the organic electroluminescence element such that a luminescent light amount of the organic electroluminescence element become constant based on information from <u>one of</u> the temperature sensor, the light amount sensor, <u>or and</u> the darkness sensor.

Claim 14 (Currently Amended) An image forming apparatus comprising:

exposing means an exposing device including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

eooling means a cooler for cooling the organic electroluminescence element; and

eontrolling means a controller for controlling the eooling means cooler for uniformly controlling a temperature of an inside of a head such that a difference in a light amount of each pixel at the inside of the head of the exposing means device becomes equal to or smaller than $\pm 14\%$.

Claim 15 (Currently Amended) An image forming apparatus comprising:

exposing means an exposing device including an organic electroluminescence member having a plurality of pieces of luminescent units between a pair of an anode and a cathode opposed to each other;

wherein the luminescent unit constituting the organic electroluminescence element is constituted by combining a unit in which a light amount of each luminescent unit is increased relative to a temperature and a unit in which the light amount of the luminescent unit is reduced relative to the temperature.

Claim 16 (Currently Amended) The image forming apparatus according to Claim 15, further comprising eooling means a cooler for cooling the organic electroluminescence element constituting the exposing means exposing device.

Claim 17 (Currently Amended) The image forming apparatus according to Claim 15, further comprising:

eooling means a cooler for cooling the organic electroluminescence element; a temperature sensor for detecting a temperature of the exposure head; and

controlling means a controller for operating the cooling means cooler when the temperature of the exposing means exposing device detected by the temperature sensor becomes out of exceeds a predetermined temperature.

Claim 18 (Currently Amended) An image forming apparatus comprising:

exposing means an exposing device including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

eooling means a cooler provided arranged with a heat radiating sheet for cooling the organic electroluminescence element constituting the exposing means exposing device.

Claim 19 (Currently Amended) The image forming apparatus according to Claim 18, wherein the <u>eooling means cooler</u> cools any of faces excluding at least a luminescent face of the organic electroluminescence element constituting the <u>exposing means</u> exposing device.

Claim 20 (Currently Amended) An image forming apparatus comprising:

exposing means an exposing device including an electroluminescence element including at least an anode for injection a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board;

wherein the organic electroluminescence element is cooled by using eooling means a cooler constituting a liquid medium by a liquid.